

What is claimed is:

1. A projection display comprising:
an illumination module; and
an optical modulator for modulating light incident from the illumination module in response to image data,
wherein the illumination module comprises:
a light source comprising a plurality of light emitting devices;
a light guide panel comprising a top surface from which light is emitted, the top surface facing the optical modulator, and an edge surface on which light is incident; and
an optical transport member for guiding light emitted from the light source to the edge surface of the light guide panel, the cross-sectional area of the optical transport member parallel to the edge surface increasing from the edge surface to the light source.
2. The projection display of claim 1, wherein the optical transport member is made of a transparent material, and comprises a light emitting portion facing the edge surface, a light incident portion facing the light source, and a body portion connecting the light incident portion to the light emitting portion.

3. The projection display of claim 2, wherein the outer peripheral surfaces of the body portion are processed to reflect light to the inside of the body portion.

4. The projection display of claim 2, wherein the body portion comprises a plurality of stair portions each of which comprises a first surface parallel to a direction in which the light travels and a second surface reflection-processed, the first surface and the second surface forming a predetermined angle therebetween.

5. The projection display of claim 4, wherein the second surface is orthogonal to the first surface.

6. The projection display of claim 2, wherein the light incident portion comprises a plurality of light incident surfaces which are inclined with respect to the light traveling direction.

7. The projection display of claim 6, wherein the light source comprises a plurality of light emitting device arrays in which a plurality of light emitting devices are aligned, and at least one light emitting device array is positioned to correspond to the light incident surface.

8. The projection display of claim 7, wherein the light emitting device comprises a light emitting diode.

9. The projection display of claim 2, wherein the body portion comprises a plurality of stair portions having a first surface parallel to a light traveling direction and a second surface reflection-processed, the first surface being orthogonal to the second surface, the light incident portion comprises a plurality of light incident surfaces which are inclined with respect to the light traveling direction, the light source comprises a plurality of light emitting device arrays in which a plurality of light emitting devices are aligned, and at least one light emitting device array is positioned to correspond to the light incident surface.

10. The projection display of claim 9, wherein the light emitting device comprises a light emitting diode.

11. The projection display of claim 2, wherein the optical transport member is made of a material having the same refractive index as the light guide panel.

12. The projection display of claim 2, wherein the optical transport member is integrally formed with the light guide panel.

13. The projection display of claim 1, wherein the optical transport member comprises an optical tunnel in the form of a hollow rectangular pipe whose inner surface reflects light.

14. The projection display of claim 1, wherein the light source comprises a plurality of light emitting device arrays in which a plurality of light emitting devices are aligned.

15. The projection display of claim 14, wherein the light emitting device comprises a light emitting diode.

16. A projection display comprising:
an illumination module; and
an optical modulator for modulating light incident from the illumination module in response to image data,

wherein the illumination module comprises:

a light source comprising a plurality of light emitting devices;
and

a light guide panel comprising a top surface from which light is emitted, the top surface facing the optical modulator, and an optical transport portion extending from a virtual edge surface crossing the top surface and increasing in size from the virtual edge surface toward the light source.

17. The projection display of claim 16, wherein the outer peripheral surfaces of the light transport portion other than the surface facing the light source are processed to reflect light.

18. The projection display of claim 16, wherein the optical transport portion comprises a plurality of stair portions having a first surface parallel to a light traveling direction and a second surface reflection-processed, the first surface being orthogonal to the second surface.

19. The projection display of claim 16, wherein the optical transport portion comprises a plurality of light incident surfaces on which light is incident from the light source, the plurality of incident surfaces being inclined with respect to the light traveling direction.

20. The projection display of claim 19, wherein the light source comprises a plurality of light emitting device arrays in which a plurality of light emitting devices are aligned, and at least one light emitting device array is positioned to correspond to the light incident surface.

21. The projection display of claim 1, wherein the optical transport member is integrally formed with the light guide panel.

22. The projection display of claim 16, wherein the optical transport portion is integrally formed with the light guide panel.